

## CLAIMS

1. A fuel supply device which supplies a fuel gas introduced from a fuel cartridge to a fuel cell through a flow passage, comprising:
  - a fuel introduction valve that introduces the fuel gas into the flow passage from the fuel cartridge;
  - a purge valve that discharges any gas other than the fuel gas introduced into the flow passage from the flow passage to effect gas replacement; and
  - a fuel supply valve that supplies the fuel gas introduced into the flow passage to a fuel cell main body,
- 15 wherein the fuel gas is supplied to the fuel cell by controlling the fuel introduction valve, the purge valve, and the fuel supply valve through at least one of mechanical operation and electrical operation performed from outside.
- 20 2. The fuel supply device according to Claim 1, wherein the control of the fuel introduction valve, the purge valve, and the fuel supply valve is effected through mechanical and electrical operation based on a command from an external apparatus in which the fuel cell is mounted.
- 25 3. The fuel cell comprising the fuel supply device as claimed in claim 1 and a detachable fuel

cartridge.

4. An apparatus comprising the fuel cell as claimed in Claim 3.

5. A fuel supply device which supplies a fuel gas introduced from a fuel cartridge to a fuel cell through a flow passage, comprising:

a fuel introduction valve that introduces the fuel gas into the flow passage from the fuel cartridge;

10 a purge valve that discharges any gas other than the fuel gas introduced into the flow passage from the flow passage to effect gas replacement;

15 a fuel movement valve that controls a pressure of the fuel gas in the flow passage to move the fuel gas; and

a fuel supply valve which supplies the fuel gas introduced into the flow passage to a fuel cell main body,

20 wherein the fuel gas is supplied to the fuel cell by controlling the fuel introduction valve, the purge valve, and the fuel supply valve through at least one of mechanical operation and electrical operation performed from outside.

25 6. The fuel supply device according to Claim 5, wherein the fuel movement valve is provided in the flow passage, and movement of the fuel gas is effected through control of the pressure of the fuel

gas by a diaphragm.

7. The fuel supply device according to Claim 5,  
wherein the control of the fuel introduction valve,  
the purge valve, and the fuel supply valve is  
5 effected through mechanical and electrical operation  
based on a command from an external apparatus in  
which the fuel cell is mounted.

8. A fuel cell comprising the fuel supply  
device as claimed in claim 5 and a detachable fuel  
10 cartridge.

9. An apparatus comprising the fuel cell as  
claimed in Claim 7.